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The relationship between multidimensional perfectionism and contingencies of self-worth

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1 Abstract

2 Research suggests that while socially prescribed perfectionism has a
3 robust association with psychological difficulties, self-oriented perfectionism may
4 be best considered a vulnerability factor (Hewitt & Flett, 1991; Flett & Hewitt,
5 2007). One explanation for their divergent consequences is that these dimensions
6 of perfectionism are underpinned by different contingencies of self-worth. The
7 purpose of the current study was to examine this possibility. Two-hundred and
8 forty-eight undergraduate students (age $M = 19.08$, $SD 2.36$, range 18-49)
9 completed measures of perfectionism (self-oriented and socially prescribed) and
10 contingencies of self-worth (based on outperforming others, approval of others,
11 and personal competence). Consistent with the hypotheses, regression analyses
12 revealed that socially prescribed perfectionism was predicted by contingencies of
13 self-worth based on outperforming others and the approval of others, whereas
14 self-oriented perfectionism was predicted by contingencies of self-worth based on
15 outperforming others and personal competence. The results suggest that the
16 nature of the contingencies of self-worth associated with these dimensions of
17 perfectionism may be important when considering their relationship with
18 psychological maladjustment.

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The relationship between multidimensional perfectionism and contingencies of
self-worth

Perfectionism is a multidimensional personality trait that entails an array
of interpersonal and intrapersonal dimensions that have a considerable impact on
psychological adjustment (e.g., Enns, Cox, Sareen, & Freeman, 2001; Rice &
Lapsley, 2001; Rice, Vergara, & Mirela, 2006). Hewitt and Flett (1991) have
developed a model of perfectionism that distinguishes between dimensions of
perfectionism based on the perceived origins and focus of perfectionistic
standards. Socially prescribed perfectionism is the belief that significant others
impose extremely high and unrealistic standards on the self and that approval is
contingent on their achievement. Self-oriented perfectionism is the tendency to set
exceedingly high personal standards and evaluate oneself critically. Research
suggests that these dimensions have divergent consequences. While socially
prescribed perfectionism appears to be uniformly debilitating, self-oriented
perfectionism appears to be best considered a vulnerability factor (Hewitt & Flett,
1991; Flett & Hewitt, 2007). For example, socially prescribed perfectionism is
positively related with distress, hopelessness, depression, and suicide ideation,
whereas the relationship between self-oriented perfectionism and these variables
is weak, inconsistent, or only apparent through an interaction with third-order
variables (e.g., stress, coping, and socially prescribed perfectionism) (e.g.,
Blankstein, Lumley, & Crawford, 2007; O'Connor & O'Connor, 2003; Sherry,
Hewitt, Flett, & Harvey, 2003).

1 Proposed explanations for the distinct consequences of self-oriented and
2 socially prescribed perfectionism include disparity in terms of self-critical
3 tendencies (Gilbert, Durrant, & McEwan, 2006; Trumpeter, Watson, & O' Leary,
4 2006), perceptions of control (Flett, Hewitt, Blankstein, & Mosher, 1995), and
5 coping tendencies (Hewitt & Flett, 1996). A further explanation is that self-
6 oriented and socially prescribed perfectionism entail different beliefs about the
7 relationship between accomplishment and feelings of self-worth. The prominence
8 of a conditional sense of self-worth is evident in conceptualisations of both self-
9 oriented and socially prescribed perfectionism. Self-oriented perfectionism
10 involves the belief that *self*-acceptance is based on the attainment of exceedingly
11 high *personal* standards. In contrast, socially prescribed perfectionism involves
12 the belief that *self* and *other*-acceptance is contingent upon the attainment of
13 exceedingly high standards that are *externally* imposed by others. Empirical
14 findings have confirmed the positive association between these dimensions of
15 perfectionism and conditional sense of self-acceptance and self-worth.
16 Furthermore, this research also suggests that conditional acceptance and worth are
17 significant sources of the psychological and emotional difficulties associated with
18 these dimensions of perfectionism (e.g., Flett, Besser, Davis, & Hewitt, 2003;
19 Flett, Russo, & Hewitt, 1994; Hill, Hall, Appleton & Kozub, 2008; Stoeber,
20 Kempe & Keogh, 2008; Sturman, Flett, Hewitt, & Rudolph, 2009).

21 The notion that conditional self-acceptance and self-worth provides the
22 basis for psychological difficulties is central to a number of approaches to the
23 examination of self-worth in social and counselling psychology (e.g., Deci &
24 Ryan, 1995; Ellis, 2003; Kernis, 2003; Rogers, 1996). Deci and Ryan (1995)

1 defined contingent self-worth as worth based upon the attainment of generalised
2 inter-personal or intra-psychic expectations. In contrast, non-contingent self-worth
3 (or true self-worth) is described as self-worth that is secure and independent of the
4 attainment of these generalised inter-personal or intra-psychic expectations.
5 According to these models, whether self-worth is contingent or not is a general
6 quality that strongly influences psychological and emotional adjustment (see
7 Kernis, 2003). From this perspective, self-oriented and socially prescribed
8 perfectionism both lead to psychological difficulties because they are associated
9 with contingent, as opposed to non-contingent, self-worth. However, this
10 approach does not explain why contingent self-worth manifests in different
11 consequences depending on the dimension of perfectionism.

12 Crocker and colleagues (Crocker, Luhtanen, Cooper, & Bouvrett, 2003;
13 Crocker & Park, 2004; Crocker & Wolfe, 2001) provide a model that
14 differentiates between the consequences of contingent self-worth. In contrast to
15 emphasising between-person differences in contingent or non-contingent self-
16 worth, their approach considers the domains in which worth is contingent.
17 Contingencies of worth are the domains in which self-esteem is staked, enhanced
18 and threatened (Crocker et al., 2003). Although contingencies of self-worth are
19 likely to be wide and varied, Crocker and colleagues (Crocker et al., 2003;
20 Crocker & Park, 2004; Crocker & Wolfe, 2001) have identified a number of
21 common and important contingencies of worth that include personal
22 competencies, inter-personal competition, approval of others, family affection,
23 physical appearance, God's love and virtue. Attempts to satisfy contingencies of
24 self-worth are associated with personal and interpersonal costs such as thwarting

1 psychological needs and poorer mental and physical health (see Crocker & Park,
2 2004). However, from this perspective, some contingencies are considered to be
3 more divisive than others. In particular, contingencies that involve external
4 validation (e.g., approval of others) are associated with greater psychological
5 maladjustment than those that can be internally referenced (e.g., personal
6 competence) (see Crocker, 2002; Crocker & Park, 2004).

7 The potential similarities and differences between self-oriented and
8 socially prescribed perfectionism in terms of the underlying contingencies of
9 worth is evident in extant research. Both self-oriented and socially prescribed
10 perfectionism have been found to be related to performance goals that entail the
11 belief that demonstrating comparative ability defines personal success (e.g., Van
12 Yperen, 2006; Spiers Neumeister & Finch, 2006). Consequently, both self and
13 socially prescribed perfectionism are likely to include the desire to establish a
14 sense of self-worth through superior performance in inter-personal competition.
15 However, unlike self-oriented perfectionism, socially prescribed-perfectionism is
16 also likely to be associated with contingencies that pertain to the importance of
17 the acceptance of others (e.g., others approval). This is because this interpersonal
18 dimension of perfectionism is purported to partly reflect a neurotic need to please
19 others (Hewitt & Flett, 1991). In accord, previous research has demonstrated that
20 this dimension of perfectionism is associated with a strong desire for approval and
21 a fear of negative evaluation (Hewitt & Flett, 1991). Self-oriented perfectionism,
22 on the other hand, is more likely to be associated with contingencies that pertain
23 to personal competencies (e.g., academic competence, sport competence) because
24 of the intrapersonal nature of the standards associated with this dimension (Hewitt

1 & Flett, 1991). Research supports this possibility as self-oriented perfectionism
2 has been found to be unrelated to the desire for approval from others or fear of
3 negative evaluation but is associated with facets of Type A personality that reflect
4 a preoccupation with personal accomplishment (Hewitt & Flett, 1991; Flett,
5 Hewitt, Blankstein, & Dynin, 1994).

The purpose of this study is to extend previous research by examining the possibility that self-oriented and socially prescribed perfectionism are underpinned by different contingencies of self-worth. Based on the preceding argument, it was hypothesised that socially prescribed perfectionism would be predicted by contingencies of self-worth based on outperforming others and the approval of others whereas self-oriented perfectionism would be predicted by contingencies of self-worth based on outperforming others and personal competence.

14 Method

15 Participants

Participants were 248 (134 males, 86 females, 28 non-respondents) undergraduates (age $M = 19.08$, $SD = 2.36$, range 18-49). The participants completed a multi-sectional questionnaire that contained measures of self-oriented and socially prescribed perfectionism and contingencies of self worth prior to a research methods class. Informed consent was gained from each participant prior to completion of the questionnaire.

22 Measures

23 *Multidimensional Perfectionism*: Self-oriented (SOP) and socially
24 prescribed perfectionism (SPP) were assessed using Hewitt and Flett's (1991)

1 Multidimensional Perfectionism Scale (MPS). The third dimension measured by
 2 this scale, other-oriented perfectionism (OOP), entails beliefs about the
 3 performances of others and was therefore not included in the study. The two
 4 subscales of the MPS each contain 15-items measured on a seven-point Likert
 5 scale (1 = *strongly disagree* to 7 = *strongly agree*). Responses on the self-
 6 oriented perfectionism subscale reflect excessive striving for high personal
 7 standards and self-critical tendencies (e.g., “I demand nothing less than perfection
 8 of myself.”). In contrast, responses to the socially prescribed perfectionism
 9 subscale reflect the belief that significant others have exceedingly high standards
 10 and that acceptance is based on the attainment of those standards (e.g., “The
 11 people around me expect me to succeed at everything I do.”). Evidence to support
 12 the validity and reliability of measurement associated with the scale has been
 13 provided by Hewitt and Flett (1991, 2004). This evidence includes good internal
 14 consistency ($\alpha = \text{SOP } .89$ and $\alpha = \text{SPP } .86$) and test-retest reliability for these
 15 scales ($r = \text{SOP } .88$ and $r = \text{SPP } .75$) in student and general samples (Hewitt &
 16 Flett, 1991).

17 *Contingences of self-worth:* Self-worth contingent on the approval of
 18 others and outperforming others was measured using two subscales from Crocker
 19 et al.’s (2003) Contingencies of Self-Worth Scale. Both the approval from
 20 generalised others subscale (OA) (e.g., “My self-esteem depends on the opinions
 21 others hold of me.” “I can’t respect myself if others don’t respect me.”) and the
 22 competition subscale (C) (e.g., “My self-worth is affect by how well I do when
 23 competing with others.” “Knowing that I am better than others on a task raises my
 24 self-esteem.”) contain 5 items. Each is scored on a seven-point Likert scale (1 =

1 *strongly disagree* to 7 = *strongly agree*). Crocker et al. (2003) have provided
 2 evidence to support the validity and the reliability of the measurement associated
 3 with the two subscales of the Contingencies of Self-Worth Scale. This includes
 4 good factor stability, internal consistency ($\alpha = \text{OA } .82$ and $\alpha = \text{C } .87$) and test-
 5 retest reliability ($r = \text{OA } .61$ and $r = \text{C } .61$). Self-worth contingent on a general
 6 sense of personal competence (PC) was using 5 items from Kernis and Paradise's
 7 (Kernis, 2003; Paradise & Kernis, 1999) Contingent Self-Esteem Scale ("An
 8 important measure of my worth is how competently I perform." "Even in the face
 9 of failure, my feelings of self-worth remain unaffected." [reversed] "A big
 10 determinant of how much I like myself is how well I perform up to the standards
 11 that I have set for myself." "An important measure of my worth is how well I
 12 perform up to the standards that other people have set for me." "When my actions
 13 do not live up to my expectations, it makes me feel dissatisfied with myself.").
 14 The items are scored on a five-point Likert scale (1 = *not at all like me* to 5 = *very*
 15 *much like me*). Evidence of the reliability and validity of the measurement
 16 associated with the Contingent Self-Esteem Scale has been provided by those that
 17 have used the scale (Knee, Canevello, Bush, & Cook, 2008; Patrick, Neighbors, &
 18 Knee, 2004). This includes acceptable levels of internal consistency ($\alpha = .85$) and
 19 test-retest reliability ($r = .77$) (Kernis, 2003; Paradise & Kernis, 1999).

20 Results

21 *Preliminary analysis*

22 Prior to the main analyses, a missing value analysis was conducted on the
 23 data. Due to large amounts of missing data from individual respondents (> 5%),
 24 six participants were removed from the sample. There were 203 complete cases

1 and 39 cases with incomplete data. For those with incomplete data, the average
 2 number of missing items was 1.15 ($SD = 0.37$, range 1 to 2). There were 24
 3 unique patterns of missing data. Because there was a relatively high ratio of
 4 unique patterns of missing data to the number of participants with missing data (= $.62$), and the majority of the shared patterns involved one or two missing items
 5 (79%), the mechanism that underpins the missing data was presumed to be non-
 6 systematic. Each missing item was therefore replaced using the mean of the each
 7 case's available non-missing items from the relevant subscale. This method of
 8 imputation is considered to be an appropriate strategy when the amount of missing
 9 data is low and items are highly correlated (Graham, Cumsille & Elek-Fisk,
 10 2003).

12 Next, the data was screened for univariate outliers (see Tabachnick &
 13 Fidell, 2007). Standardised z-scores larger than 3.29 ($p < .001$, two-tailed) were
 14 used as criteria for univariate outliers. This led to the removal of one participant.
 15 Two further participants were removed as they were clear outliers but fell
 16 marginally outside the cut-off value (zscore = 3.27). The remaining data ($n = 239$)
 17 was considered to be approximately univariate normal (absolute skewness $M =$
 18 0.82 , $SD = 0.31$, $SE = 0.16$, absolute kurtosis $M = 0.70$, $SD = 0.56$, $SE = 0.31$).
 19 Finally, internal reliability analysis (Cronbach's alpha) was performed on each
 20 scale. All instruments demonstrated sufficient internal consistency ($\alpha \geq .70$ for
 21 scales with 10 items or more and $\alpha \geq .60$ for scales with 5 items or more;
 22 Loewenthal, 2001). The values are displayed in Table 1.

23 *Descriptive Analyses*

Regression analyses were used to examine whether different contingencies of worth predict self-oriented and socially prescribed perfectionism. Preliminary analysis indicated that multicollinearity between variables were unproblematic (tolerance). There was a lack of autocorrelation (regression one [SPP] Durbin-Watson = 1.94, tolerance = .66 to .84, and regression two [SOP] Durbin-Watson = 2.14, tolerance = .66 to .84) and residuals were normally distributed and homoscedastic (based on standardised predicted values-standardised residuals plots). The results of the regression analyses are displayed in Table 2. Socially prescribed perfectionism was predicted by contingencies of self-worth based on outperforming others and the approval of others, but not by self-worth contingent on personal competence. Self-oriented perfectionism was predicted by contingencies of self-worth based on outperforming others and personal competence, but not by self-worth contingent on the approval of others.

23 Discussion

1 Research has demonstrated the divergent consequences of self-oriented
 2 and socially prescribed perfectionism. One explanation is that these differences
 3 reflect different underlying contingencies of self-worth. The purpose of the
 4 current study was to examine this possibility. Utilising Crocker and colleagues
 5 (Crocker, 2002; Crocker et al., 2002) model of contingencies of self-worth, it was
 6 hypothesised that self-oriented perfectionism would be predicted by contingencies
 7 of self-worth based on outperforming others and personal competence, whereas
 8 socially prescribed perfectionism would be predicted by contingencies of self-
 9 worth based on outperforming others and the approval of others. Regression
 10 analyses supported these hypotheses.

11 *Similarities between self-oriented and socially prescribed perfectionism*

12 Contingent self-worth is believed to be a source of the psychological
 13 difficulties associated with both self-oriented perfectionism and socially
 14 prescribed (e.g., Flett et al., 2004; Hill et al., 2008; Scott, 2007). The findings of
 15 the current study suggest that these dimensions of perfectionism are underpinned
 16 by common as well as distinct contingencies of worth. Outperforming others
 17 (competition) is a source of self-worth for both self-oriented and socially
 18 prescribed perfectionism. This is consistent with research that has found that the
 19 demonstration of comparative ability is central to the manner in which success is
 20 defined for both of these dimensions of perfectionism (e.g., Van Yperen, 2006;
 21 Spiers Neumeister, & Finch, 2006). Individuals with higher levels of either of
 22 these dimensions of perfectionism are therefore unlikely to be comfortable with
 23 perceptions of parity with others and may experience personal and interpersonal
 24 difficulties as a consequence (Rosenberg, 1965).

1 *Differences between self-oriented and socially prescribed perfectionism*

2 While self-oriented and socially prescribed perfectionism share an
 3 association with contingent self-worth based on outperforming others, they were
 4 also characterised by distinct contingencies of self-worth. Self-oriented
 5 perfectionism was associated with a generalised competence based contingency of
 6 self-worth but not the approval of others based contingency of self-worth.
 7 Interestingly, the purported costs associated with competence based contingencies
 8 include the possibility of experiencing learning and performance deficits. This is
 9 primarily because defensive strategies aimed at maintaining and protecting self-
 10 worth (e.g., avoidance and self-handicapping) can sometimes undermine the
 11 development of competence (Crocker & Park, 2004; Kernis, 2003). Clearly, while
 12 this dimension of perfectionism may act positively to energise achievement
 13 striving in an attempt to establish self-worth, it may in some circumstances lead to
 14 self-defeating behaviours. In support of this possibility, a number of studies have
 15 found individuals higher in self-oriented perfectionism employ various self-
 16 handicapping behaviours in order to protect self-worth when they perceive either a
 17 lack of control over successful outcomes (Hobden & Pliner, 1995) or experience
 18 failure (Doebler, Schnick, Beck, & Astor-Stetson, 2000).

19 When contrasted with self-oriented perfectionism, subtle differences in the
 20 contingencies of self-worth associated with socially prescribed perfectionism may
 21 help to explain why this form of perfectionism is considered to be especially
 22 debilitating. In the present study, the findings revealed that socially prescribed
 23 perfectionism was not associated with a generalised competence based
 24 contingency of self-worth, but with a contingent self-worth that is based upon the

1 demonstration of comparative superiority and the perceived receipt of approval
 2 from significant others. Seeking the approval of others is suggested to be an
 3 especially problematic strategy to establish a sense of self-worth, especially when
 4 the approval of generalised others is sought rather than the approval of any
 5 specific individual or group (Crocker & Park, 2004). Consequently, the inability
 6 to satisfy this contingency is likely to be a significant source of the negative
 7 psychological consequences associated with socially prescribed perfectionism.
 8 There is also reason to suspect that this contingency may be especially
 9 problematic for those with higher levels of socially prescribed perfectionism. This
 10 is because socially prescribed perfectionism entails both negative perceptions of
 11 interpersonal relationships and problematic interpersonal behaviours. These
 12 include perceptions of lower personal social skills (Flett, Hewitt, & De Rosa,
 13 1996), perceptions of higher frequency of negative social interactions (Flett,
 14 Hewitt, Garshowitz & Martin, 1997), general hostile-dominant characteristics
 15 (Hill, McIntire, & Bacharach, 1997), as well as over-controlling and conflict
 16 oriented coping behaviours in close relationships (Haring, Hewitt, & Flett, 2003).
 17 Consequently, while socially prescribed perfectionism entails a strong desire for
 18 the approval of others, it is also associated with behaviours that are likely to
 19 undermine those positive interpersonal relationships which may aid in bringing
 20 about such approval.

21 One of the central tenets of Crocker's model is that while contingencies of
 22 self-worth represent important psychological vulnerabilities (Crocker, 2002),
 23 some contingencies render individuals more vulnerable to maladjustment than
 24 others. Because self-oriented and socially prescribed perfectionism are associated

1 with contingencies of self-worth, the perceived need to defend, maintain and
2 enhance self-worth is likely to place strain on the cognitive, emotional and
3 physical resources of those with higher levels of either of these dimensions of
4 perfectionism (see Kernis, 2003). However, because the contingencies of worth
5 associated with self-oriented perfectionism entail a greater degree of personal
6 control, they are likely to be comparatively easier to satisfy. This is because
7 internal contingencies entail a greater degree of personal control (Crocker, 2002;
8 Crocker & Wolfe, 2001). As a consequence, they are purported to provide a more
9 stable sense of self-esteem and lead to fewer psychological difficulties than
10 external contingencies (see also Kernis, 2003). External contingencies are both
11 more difficult to satisfy and maintain, and are perceived to need to be pursued
12 more frequently and intensely (Crocker & Park, 2004). They are also associated
13 with greater labile self-esteem and poorer adjustment (see also Kernis, 2003).
14 Therefore, differences in the contingencies of self-worth that underlie self-
15 oriented and socially prescribed perfectionism may in part explain the divergent
16 consequences that have been observed by research examining their consequences.

17 *Limitations and future directions*

18 The findings of the current study must be considered in context of the
19 studies limitations. The current study measured only a small number of domain
20 contingencies. Those selected were considered to be the most important in terms
21 of distinguishing between self-oriented and socially prescribed perfectionism but
22 it is possible that differences may be evident across other domains in which self-
23 worth is staked (e.g., physical appearance, affection of family, admiration from
24 peers). Future research may wish to examine this possibility. The measure used to

1 assess self-worth based on generalised self-competence was constructed
2 specifically for this study. Although the items were taken from an established
3 measure, the psychometric properties of the scale are unclear. Therefore, the
4 findings involving this scale should be interpreted cautiously. As the findings of
5 the study provide an initial indication that specific contingencies of self-worth
6 may be useful when attempting to understand the consequences of self-oriented
7 and socially prescribed perfectionism, future research may wish to examine their
8 role further. Specific contingencies of self-worth may mediate between
9 perfectionism and various outcomes in the same manner in which global measures
10 of contingent self-worth do (e.g., Hill et al., 2008; Scott, 2007; Sturman et al.,
11 2009). In turn, future research may also wish to examine the incremental
12 predictive ability of specific versus global measures in explaining the
13 consequences of perfectionism. This is important to develop a parsimonious
14 account of the relationship between perfectionism, contingent self-worth and
15 psychological maladjustment.

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Table 1 *Descriptive statistics and internal reliability coefficients for dimensions of perfectionism and contingencies of self-worth*

Variable	Likert scale	<i>M</i>	<i>SD</i>	α
1. Self-oriented perfectionism	1-7	4.67	0.76	.82
2. Socially prescribed perfectionism	1-7	3.62	0.62	.71
3. Self-worth contingent on outperforming others	1-7	4.54	1.02	.82
4. Self-worth contingent on others' approval	1-7	3.80	1.19	.72
5. Self-worth contingent on personal competence	1-5	3.43	0.61	.60

Table 2 *The prediction of self-oriented and socially prescribed perfectionism using contingencies of self-worth*

Criterion Variable	Predictor variables	<i>F</i>	df	<i>R</i> ²	Adjusted <i>R</i> ²	β	<i>t</i>
Socially prescribed perfectionism		13.62**	3, 235	.15	.14		
	Outperforming others					.27	4.90**
	Approval of others					.15	2.25**
	Personal competence					.10	1.38**
Self-oriented perfectionism		10.12**	3, 235	.11	.10		
	Outperforming others					.23	3.25***
	Approval of others					-.05	-0.74***
	Personal competence					.18	2.35***
** $p < .01$		* $p < .05$					